

AN INTERPOLATOR, A RESAMPLER EMPLOYING THE INTERPOLATOR AND
METHOD OF INTERPOLATING A SIGNAL ASSOCIATED THEREWITH

ABSTRACT OF THE DISCLOSURE

5 An interpolator, method of interpolating a one-bit signal and
resampler employing the interpolator and method. The interpolator
employs a cascaded architecture to interpolate a one-bit input
signal received at an input thereof. In one embodiment, the
interpolator includes a multiple order interpolation filter that
generates a sample range from at least three input samples
associated with the one-bit input signal. The interpolator further
includes a linear interpolation filter, associated with the
multiple order interpolation filter, that develops a plurality of
samples within the sample range.